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File: DWPI

Mar 13, 1990

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TITLE: Lignin peroxidase FL for used for pulping etc. obtd. by culturing Phanerochaete microorganism

Basic Abstract Text (1):

Lignin peroxidase FL generates veratryl aldehyde by oxidising veratryl alcohol under hydrogen peroxide, decomposes diallyl propane by oxidn. under hydrogen peroxide, decomposes dimer cpd. of lignin such as diallyl propane or veratryl glycerol-beta-guaiacyl ether by oxidn., has isoelectric pt. at 4.8 and mol.wt. of 42000. It is haem-contg. enzyme having max. absorptivity at 407nm, inhibited slightly by FeSO<sub>4</sub> and CuSO<sub>4</sub> and inhibited strongly by EDTA, KCN, hydroxyl amine, thiourea or NaN<sub>3</sub>, Prodn. of lignin peroxidase FL comprises (1) culturing lignin peroxidase FL generative microbe belonging to Phanerochaete and (2) extracting lignin peroxidase FL from culture prod.

Basic Abstract Text (2):

USE/ADVANTAGE - Lignin peroxidase FL is used for pulping, bleaching of pulp or waste water treatment in prodn. of paper and pulp. It is activated by manganese ion. @ (8pp Dwg.No.0/6)

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